

Scatterplot practice worksheet: answers

1) Positive, linear, strong

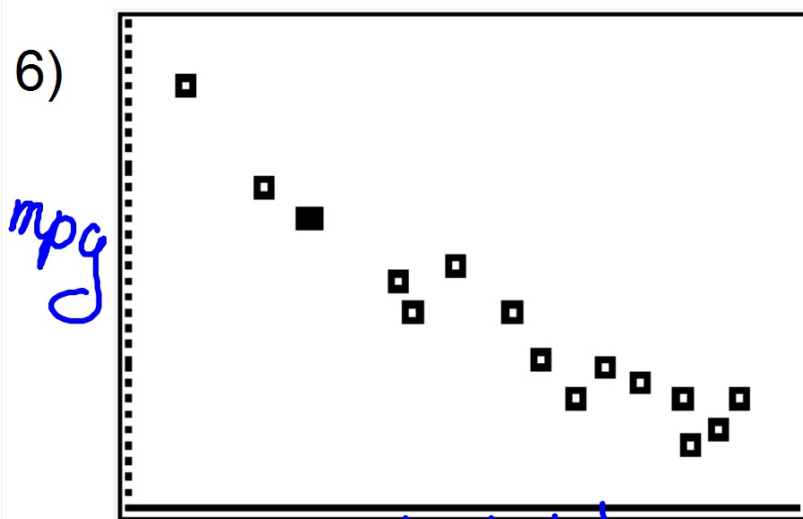
2) scattered

3) positive, curved/linear, moderate

4) positive, linear, moderately strong,
one outlier @ (6.5, 2)

5) Explanatory = weight
Response = fuel efficiency (mpg)

6)



7) negative, linear, strong

8) $r = -0.959$

ADD ON QUESTION:

$$r = -0.959$$

9) Find r^2 and interpret it in context of the problem

91.97% of the change in the fuel efficiency (mpg) is due to the change in the weight of the car.

⑩ What % of the change in mpg is due to other variables?
8.03%

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(a) the correlation would not change if they subtracted 6 inches from the mens heights

Yes, women tend to date men taller than themselves

(b) the correlation would not change

(c) the correlation would be exactly 1